

## National Data Warehouse Project: Multiple Facilities per Extract Issue, July 2004

### Overview

When visit records are transmitted to the NDW they contain minimal patient registration information. This information is used to “link” the visits to the correct patient when no other unique identifier is available. The Health Record Number (i.e., Facility Code and Chart Number) is one of the fields that is used.

Although the RPMS extract does contain a unique identifier that we use for the “link,” we continue to receive the Health Record Number (HRN) with the visit for data quality purposes. A discrepancy was identified in one of the RPMS extracts from Phoenix. Fortunately, this is not a critical issue.

It is important to note that this issue has no affect on the RPMS application itself, so there is no adverse affect on the facility. Only the NDW extract is affected.

### The Issue

The issue is related to having multiple facilities using one RPMS system. The first area to transmit data for the Initial Data Load (Tucson) has only one facility per box and continues to process with no known issues. However, Phoenix Area does have more than one facility per box and issues were encountered during the extract process.

Each patient that is registered could have more than one chart; one per facility. Typically, the chart is maintained where the visit takes place which is also generally where the user is logged on to the system. So when a patient's chart is updated the system knows which chart to select based on where the user is entering the data.

The problem occurs when the extract is generated for the multiple facilities. The user will log on to one of the facilities to start the extract process for all facilities using that same RPMS system. The extract process will assume all charts reside at the facility where the user logged on, which is clearly not the case.

### The Solution

A meeting was held with the developers to discuss the issue and choose the appropriate solution. The meeting was attended by: Lisa Petrakos, Michael Foley, Lisa Jaramillo and Lori Butcher. George Huggins was also consulted following this meeting.

Technically, the problem is that the HL7 element PID-4 is not being populated correctly. It was agreed to use the following algorithm:

First, look to see if the chart number exists for the facility code where the visit took place. If the HRN is not found, look for the chart number using the facility code for what RPMS calls the “universal site code.” If that HRN does not exist, look for the chart number using the facility code where the user logged on when they started running the extract process. If an HRN is still not found, then use the first facility code that exists for that chart number. If still no HRN is found, then do not populate the element. Note: The HRN (facility code/chart number combination) must be for a facility that is designated as an Official Registering Facility.

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## **The Plan**

### **Programming:**

1. Incorporate the new algorithm into the extract process.

### **Testing:**

1. Re-install the kids builds for both bdw and gis in Parker.
2. Parker generates extract containing 3 months of data to use as beta test.
3. NDW verifies that the data has been corrected.

## **Duration**

The beta test file has been transmitted to the NDW and is currently under review. We anticipate a slight impact to Phoenix's load schedule, but no long-term affect to the subsequent area's schedules.